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PATENT  
TH1986



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/841,194

Confirmation No.: 4736

Filing Date: April 24, 2001

Inventors: Vinegar et al.

Title: IN SITU THERMAL  
PROCESSING OF A COAL  
FORMATION TO CONVERT  
A SELECTED TOTAL  
ORGANIC CARBON  
CONTENT INTO  
HYDROCARBON  
PRODUCTS

§ Examiner: G. A. Suchfield  
§ Art Unit: 3672  
§ Atty. Dkt. No.: 5659-06100

CERTIFICATE OF MAILING  
UNDER 37 C.F.R. §1.8

DATE OF DEPOSIT: 8-4-03

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Commissioner for Patents  
Alexandria, VA 22313-1450

Jackie L. Pitre

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

It is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 (T13-T54) be considered by the Examiner and made of record. Copies of the listed documents are enclosed for the convenience of the Examiner.

Should any fees be required, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5659-06100/EBM.

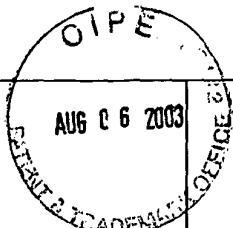
Respectfully submitted,

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Form PTO-1449(modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
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**FOREIGN PATENT DOCUMENTS**

| EXAM.<br>INITIALS | REF. DES. | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB<br>CLASS | TRANSLATION<br>YES/NO |
|-------------------|-----------|--------------------|------|---------|-------|--------------|-----------------------|
|                   |           |                    |      |         |       |              |                       |
|                   |           |                    |      |         |       |              |                       |

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

|    |     |                                                                                                                                                         |
|----|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | T13 | SSAB report, "A Brief Description of the Ljungstrom Method for Shale Oil Production," 1950, (12 pages).                                                 |
| ✓  | T14 | Salomonsson G., SSAB report, "The Lungstrom In Situ-Method for Shale Oil Recovery, 1950 (28 pages).                                                     |
| 3  | T15 | "Swedish shale oil-Production method in Sweden," Organisation for European Economic Co-operation, 1952, (70 pages).                                     |
| 4  | T16 | SSAB report, "Kvarn Torp" 1958, (36 pages).                                                                                                             |
| 5  | T17 | SSAB report, "Kvarn Torp" 1951 (35 pages).                                                                                                              |
| 6  | T18 | SSAB report, "Summary study of the shale oil works at Narkes Kvarntorp" (15 pages).                                                                     |
| 7  | T19 | Vogel et al. "An Analog Computer for Studying Heat Transfrer during a Thermal Recovery Process," AIME Petroleum Transactions, 1955 (pages 205-212).     |
| 8  | T20 | "SKIFEROLJA GENOM UPPVARMNING AV SKIFFERBERGET," Faxin Department och Namder, 1941, (3 pages).                                                          |
| 9  | T21 | "Aggregleringens orsaker och ransoneringen grunder", Av director E.F.Cederlund I Statens livesmedelskonmmision (1page).                                 |
| 10 | T22 | Ronnby, E. "KVARNTORP-Sveriges Storsta skifferoljeindustri," 1943, (9 pages).                                                                           |
| 11 | T23 | SAAB report, "The Swedish Shale Oil Industry," 1948 (8 pages).                                                                                          |
| 12 | T24 | Gejrot et al., "The Shale Oil Industry in Sweden," Carlo Colombo Publishers-Rome, Proceedings of the Fourth World Petroleum Congress, 1955 (8 pages).   |
| 13 | T25 | Hedback, T. J., The Swedish Shale as Raw Material for Production of Power, Oil and Gas," Xith Sectional Meeting World Power Conference, 1957 (9 pages). |
| 14 | T26 | SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand", 1955 Vol. 1, (141 pages) English.                      |
| 15 | T27 | SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Figures", 1955 Vol. 2, (146 pages) English.              |
| 16 | T28 | "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Memorandum re: tests", 1955 Vol. 3, (256 pages) English        |
| 17 | T29 | Helander, R.E., "Santa Cruz, California, Field Test of Carbon Steel Burner Casings for the Lins Method of Oil Recovery", 1959 (38 pages) English.       |
| 18 | T30 | Helander et al., Santa Cruz, California, Field Test of Fluidized Bed Burners for the Lins Method of Oil Recovery" 1959, (86 pages) English.             |
| 19 | T31 | SSAB report, "Bradford Residual Oil, Athabasca Ft. McMurray" 1951, (207 pages), partial translation.                                                    |
| 20 | T32 | "Lins Burner Test Results-English" 1959-1960.                                                                                                           |
| 21 | T33 | SSAB "Annual Reports, SSAB Laboratory, Address Annually Issues-Shale and Ash, Oil, Gas, Waste Water Analytical", 1953-1954, (166 pages). Swedish.       |
| 22 | T34 | SSAB report, "Financial Matter, Swedish taxes, etc.," 1960-1961 (37 pages). Swedish                                                                     |

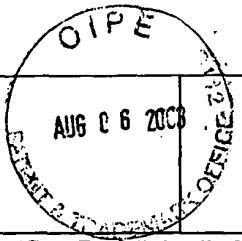
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|    |     |                                                                                                                                                                        |
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| 23 | T35 | SSAB report, "Cost For Mining," 1959-1979 (13 pages). Swedish                                                                                                          |
| 24 | T36 | SSAB report, "Cost Comparison of Mining and Processing of Shale and Dolomite Using Various Production Alternatives", 1960, (64 pages). Swedish                         |
| 25 | T37 | SSAB report, "Assessment of Future Mining Alternatives of Shale and Dolomite," 1962, (59 pages) Swedish.                                                               |
| 26 | T38 | SSAB report. "Kartong 2 Shale: Ljungstromsanlagningen" (104 pages) Swedish.                                                                                            |
| 27 | T39 | SAAB, "Photos", (18 pages).                                                                                                                                            |
| 28 | T40 | SAAB report, "Swedish Geological Survey Report, Plan to Delineate Oil shale Resource in Narkes Area (near Kvarntorp)," 1941 (13 pages). Swedish.                       |
| 29 | T41 | SAAB report, "Recovery Efficiency," 1941, (61 pages). Swedish.                                                                                                         |
| 30 | T42 | SAAB report, "Geologic Work Conducted to Assess Possibility of Expanding Shale Mining Area in Kvarntorp; Drilling Results, Seismic Results," 1942 (79 pages). Swedish. |
| 31 | T43 | SSAB report, "Ojematinigar vid Norrtorp," 1945 (141 pages).                                                                                                            |
| 32 | T44 | SSAB report, "Inhopplingschema; Norrtorp II 20/3-17/8", 1945 (50 pages). Swedish.                                                                                      |
| 33 | T45 | SSAB report, "Secondary Recovery after LINS," 1945 (78 pages).                                                                                                         |
| 34 | T46 | SSAB report, "Maps and Diagrams, Geology," 1947 (137 pages). Swedish.                                                                                                  |
| 35 | T47 | SSAB report, "Styrehseprotoholl," 1943 (10 pages). Swedish.                                                                                                            |
| 36 | T48 | SSAB report, "Early Shale Retorting Trials" 1951-1952, (134 pages). Swedish.                                                                                           |
| 37 | T49 | SSAB report, "Analysis of Lujunstrom Oil and its Use as Liquid Fuel," Thesis by E. Pals, 1949 (83 pages). Swedish.                                                     |
| 38 | T50 | SSAB report, "Environmental Sulphur and Effect on Vegetation," 1951 (50 pages). Swedish.                                                                               |
| 39 | T51 | SSAB report, "Tar Sands", Vol.135 1953 (20 pages, pages 12-15 translated). Swedish.                                                                                    |
| 40 | T52 | SSAB report, "Assessment of Skanes Area (Southern Sweden) Shales as Fuel Source," 1954 (54 pages). Swedish.                                                            |
| 41 | T53 | SSAB report, "From as Utre Dn Text Geology Reserves," 1960 (93 pages). Swedish.                                                                                        |
| 42 | T54 | SSAB report, "Kvarntorps-Environmental Area Asessment," 1981 (50 pages). Swedish.                                                                                      |

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